WEEKLY CASE REPORT FOR EXTERNAL USE

Mon Apr 19 - Mon Apr 26, 2021

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KEY TAKEAWAYS

- According to the <u>VDH Pandemic Metrics Dashboard</u>, the Central Region is experiencing a high burden of cases and a substantial activity level, with a fluctuating trend in cases, though daily case incidence and percent positivity are decreasing in both Richmond and Henrico. As of April 26, the daily case incidence rate in Richmond was 10.1 cases per 100,000, a drop from last week's rate of 17.0. Percent positivity for the locality is now 5.3%. In Henrico, the daily case incidence rate is 14.7 cases per 100,000, a decrease from 20.0 last week. Percent positivity for the locality is 6.1%.
- Following a brief increase during the first two weeks of April, cases in both districts are declining, although the downward trend in Henrico County is slightly more stable than that in Richmond City. The 7-day average of VEDSS data by date indicates cases in Richmond are occurring at a rate of 10 new cases per day, and in Henrico, the 7-day average number of new daily cases reported is 15 new daily cases reported per 100,000 population.
 - In both Richmond and Henrico, **females comprise a higher proportion of cases**, both cumulatively and in the past month. Also in both districts, **20-29 year olds** continue to lead case counts, both cumulatively and in the last 4 weeks. The case distribution by age group in Henrico County, while still favoring 20-29 year olds, is noticeably more uniformly distributed than in Richmond City, where there is an almost 14% difference between 20-29 year olds (30.76%) and the group with the second highest case burden, 30-39 year olds (16.94%). Regarding **race and ethnicity**, in Richmond, the highest proportion of cases is still among Black individuals, with a notable discrepancy between the percentage of cases in the last 4 weeks, relative to the percentage of the city's population (64.5% of cases and 47.5% of the population). In Henrico, both cumulatively and in the last 4 weeks, the proportion of cases is highest among White individuals.
- Based on VEDSS data, hospitalizations among Richmond and Henrico residents are decreasing (see <u>VDH Dashboard</u> for additional trend data). Looking more broadly, hospitalizations at health systems within the Richmond catchment area appear to be plateauing. ICU hospitalizations and the use of ventilators at these hospitals are fluctuating after recent increases, though all 11 hospitals in the Richmond catchment area are still operating at a normal clinical status. Hospitalizations by subgroup (sex, age, and race) are reported on a monthly basis.
- Current trends in **COVID-19 deaths** are decreasing overall, with a 7-day average of 1 in Henrico and less than 1 in Richmond according to the VHD Dashboard. Please note that trends in death data are frequently impacted by a lag in reporting. Deaths by subgroup (sex, age, and race) are reported on a monthly basis.
- Richmond and Henrico Health Districts are currently in Phase 2 of vaccination. Everyone 16 and older is eligible to receive the vaccine. As of April 26, 2021, 42.3% of the region's population has received at least one dose of the vaccine. Around 30% of the region's population has been fully vaccinated. Approximately 41.5% of Richmond and Henrico's combined population has received at least one dose. 28.5% of the two districts combined population has been fully vaccinated. The majority of vaccine recipients in both districts have been female. The majority of vaccine recipients in both districts have been female. The highest counts of vaccine recipients have been among 30-39 year olds in Richmond and 60-69 year olds in Henrico. Available data indicate that eligible White individuals have received the majority of the vaccine in both districts, but a large percentage of the recipients' race/ethnicity is still unreported (40% in Richmond and 37% in Henrico).

1.0 COVID-19 SNAP SHOT

1.1 Confirmed cases, hospitalizations, fatalities, and probable cases by county

CASE STATUS	RICHMOND CITY	HENRICO COUNTY	VIRGINIA
New cases this week (April 26)	161	337	7818
All cases	16664	24777	654929
Confirmed cases	13661	18178	509164
Hospitalizations	763	984	26633
Deaths	221	528	8995
Probable cases	3003	6599	145765
Hospitalizations	20	40	1485
Deaths	36	70	1711
Case rate per 100,000	7231.5	7489.6	7673

Weekly cases added are estimated as the difference between the cases recorded from the current and prior week Case Rate per 100,000=(confirmed+probable)/population count *100,000.

Population estimates for the case rate are the most recent as of July 1, 2019 from the <u>U.S Census Bureau QuickFacts</u>

1.2 CURRENT COVID-19 HOSPITALIZATIONS IN THE RICHMOND CATCHMENT AREA ON APRIL 26, 2021

The data included in this section comes from VHASS and it includes data from the following hospitals: VCU Health System, Retreat Doctors', Bon Secours Community, CWJ Chippenham, CWJ Johnson Willis, VA Medical Center, Bon Secours St. Mary's, Henrico Doctors, and Parham Doctors, Bon Secours St. Francis, and Memorial Regional Medical Center.

	TOTAL IN USE FOR COVID-19	CURRENTLY AVAILABLE	
Confirmed Hospitalizations	158	92	
Pending Hospitalizations	33	52	
Confirmed - ICU	45	10	
Pending - ICU	*	10	
Confirmed - Ventilators	23	462	
Pending - Ventilators	*	463	

*Counts <5 have been suppressed

Within these 11 hospitals that comprise the Richmond catchment area, there are currently 92 total available hospital beds, 10 available adult ICU beds, and 460 available ventilators. Based on the VHASS hospital dashboard on April 26, 2021, all 11 hospitals are operating at normal clinical status.*

2.0 COVID-19 TESTING ENCOUNTERS AND POSITIVITY

2.1 TESTING SUMMARY

Total tests by testing modality and the associated 7-day average in percent positivity are summarized in the table below. Data are from from the <u>VDH public dashboard</u> on April 26, 2021.

	RICHMOND CITY		HENRICO COUNTY	
	Tests	Positivity	Tests	Positivity
PCR*	241,252	5.3%	352,427	6.1%
Antigen	42,969	5.5%	92,095	10.2%
Total (PCR, antigen, and antibody)	288,588	5.6%	453,510	7.2%

^{*}All testing metrics included in previous reports have been based on PCR tests

^{**}A clinical status of "normal" indicates that hospital clinical resources are operating within normal conditions. A clinical status of "full" indicates that hospital clinical resources are exceeded and acceptable care cannot be provided to additional patients. Diversion or Community surge response is required.

3.0 COVID-19 CASES

3.1 SUMMARY OF CASES

Cases

Following a brief increase during the first two weeks of April, cases in both districts are declining, although the downward trend in Henrico County is slightly more stable than that in Richmond City. The 7-day average of VEDSS data by date indicates cases in Richmond are occurring at a rate of 10 new cases per day, and in Henrico, the 7-day average number of new daily cases reported is 15 new daily cases reported per 100,000 population.

Case Demographics

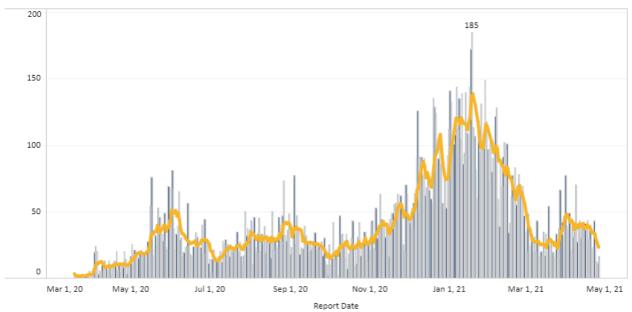
In both Richmond and Henrico, females comprise a higher proportion of cases, both cumulatively and in the past month. Also in both districts, 20-29 year olds continue to lead case counts, both cumulatively and in the last 4 weeks. The case distribution by age group in Henrico County, while still favoring 20-29 year olds, is noticeably more uniformly distributed than in Richmond City, where there is an almost 14% difference between 20-29 year olds (30.76%) and the group with the second highest case burden, 30-39 year olds (16.94%). Regarding race and ethnicity, in Richmond, the highest proportion of cases is still among Black individuals, with a notable discrepancy between the percentage of cases in the last 4 weeks, relative to the percentage of the city's population (64.5% of cases and 47.5% of the population). In Henrico, both cumulatively and in the last 4 weeks, the proportion of cases is highest among White individuals.

3.2 CASE REPORTS TRENDS BY DATE (SOURCE-VDH WEBSITE)

The report date corresponds to the date the case count was reported publicly. The report date does not have any equivalent variable in VEDSS, and cannot be directly linked to case-specific dates (e.g., event dates or lab report dates). Case counts by report date are estimated by subtracting the cumulative cases on the previous day from that of the current day. The 7-day moving average is a recurrent average of the number of cases for each 7-day data sequence.



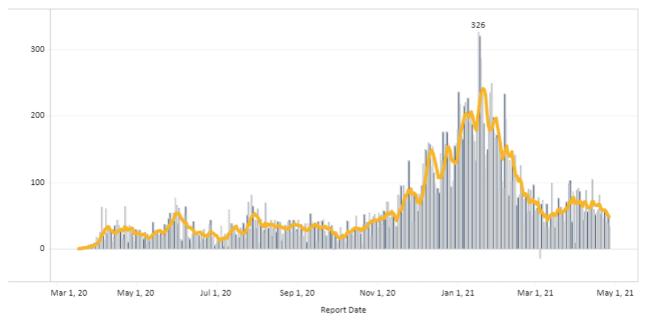
Report Date Daily Cases Counts - Richmond City



• In Richmond, the 7-day average number of daily new cases reported this week suggests an ongoing decrease in overall case counts, despite a brief increase during the first two weeks of April. A total of 16 new cases were reported on April 26, 2021, as compared to the 38 new cases reported this time last week. The 7-day average of new daily cases is 10.1 per 100,000 population.



Report Date Daily Cases Counts - Henrico

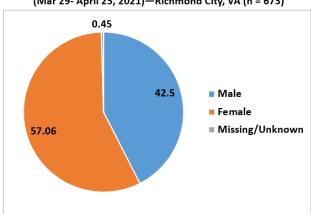


• In Henrico, new cases reported per day also appear to be decreasing, although less sharply than in Richmond City. A total of 33 new cases were reported on April 26, 2021, as compared to the 53 reported on April 19, 2021. The 7-day average number of cases reported daily in Henrico County is 14.7 per 100,000 population.

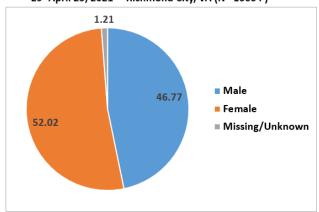
3.3 CASES BY SEX BY COUNTY

All percentages are based on overall case distribution, rather than the proportion of known cases for each measure, and therefore may not correspond directly with VDH percentages.

COVID-19 case distribution by Sex in the last 4 weeks (Mar 29- April 25, 2021)—Richmond City, VA (n = 673)

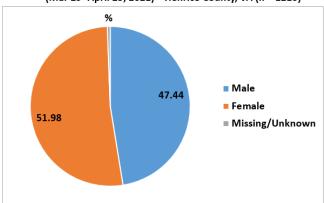


Cumulative COVID-19 case distribution by Sex as of Mar 29- April 25, 2021 —Richmond City, VA (N =16664)

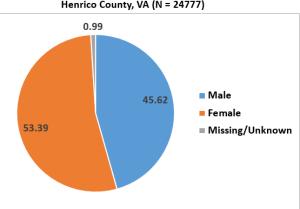


• In Richmond, females comprise a higher proportion of cases relative to males, both in the last 4 weeks (57.06% vs 42.5%) and cumulatively (52.02% vs 46.77%).

COVID-19 case distribution by Sex in the last 4 weeks (Mar 29- April 25, 2021)—Henrico County, VA (n = 1210)



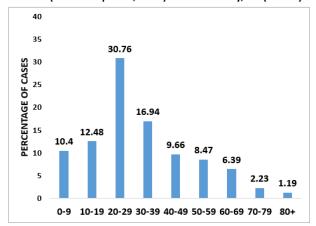
COVID-19 cases by Sex as of Mar 29-April 25, 2021— Henrico County, VA (N = 24777)



■ In Henrico, females comprise a higher proportion of cases relative to males both in the last 4 weeks (51.98% vs 47.44%) as well as cumulatively (53.39% vs 45.62%).

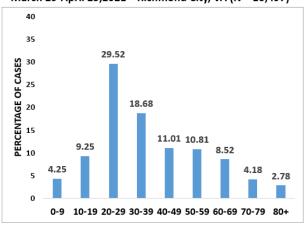
3.4 CASES BY AGE GROUP BY COUNTY

COVID-19 case distribution by Age group in the last 4 weeks (Mar 29- April 25, 2021)-Richmond City, VA (N=663)



Age is missing for 1.49% (n=10) cases

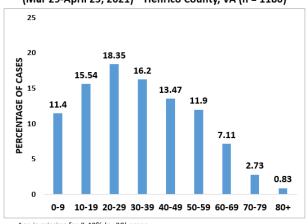
Cumulative COVID-19 case distribution by Age group as of March 29-April 25,2021—Richmond City, VA (N = 16,497)



Age is missing for 1% (n=167) cases

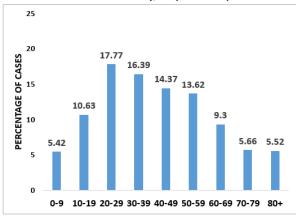
In Richmond City, individuals aged 20-29 still comprise the highest number of cases in the last four weeks (30.76%), followed by individuals aged 30-39 years (16.94%). Cumulatively, 20-29 year olds comprise a noticeable majority of cases when compared to other age groups (29.52%).

COVID-19 case distribution by Age group in the last 4 weeks (Mar 29-April 25, 2021)—Henrico County, VA (n = 1180)



Age is missing for 2.48% (n=30) cases

COVID-19 cases by Age group as of Mar 29-April 25, 2021 -Henrico County, VA (N = 24454)

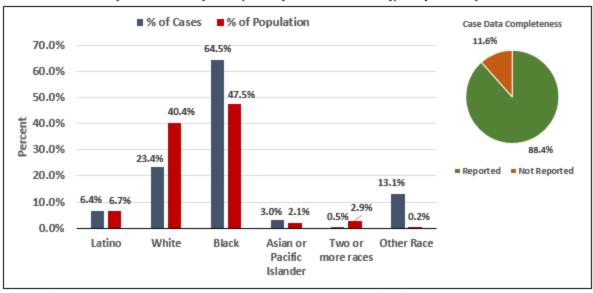


Age is missing for 1.3% (n=323) cases

In Henrico, individuals aged 20-29 comprise the highest percentage of cases (18.35%) followed by individuals aged 30-39 (16.2%), over the last four weeks. Cumulatively, individuals aged 20-29 comprise the highest percentage of cases (17.77%) and individuals aged 30-39 comprise the second highest percentage of cases (16.39%). Cases by age group in Henrico County show a much more uniform distribution than in Richmond City.

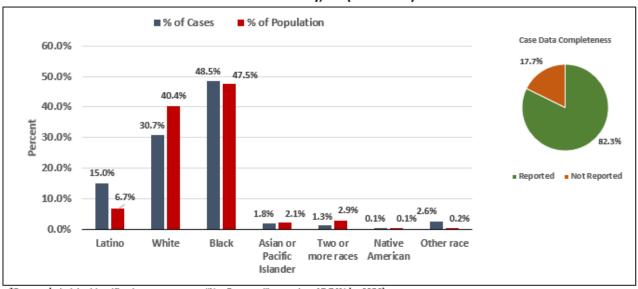
Population estimates for the Race and Ethnicity subgroup analyses are from the 2018 ACS 5-year estimates.

COVID-19 case distribution by Race and Ethnicity in the last 4 weeks (March 29 - April 25, 2021) – Richmond City, VA (n = 595)



^{*}For race/ethnicity identification among cases, "Not Reported" comprises 11.59% (n=78).

Cumulative COVID-19 case distribution by Race and Ethnicity as of April 25, 2021 - Richmond City, VA (N = 13708)



^{*}For race/ethnicity identification among cases, "Not Reported" comprises 17.74% (n=2956).

*Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity

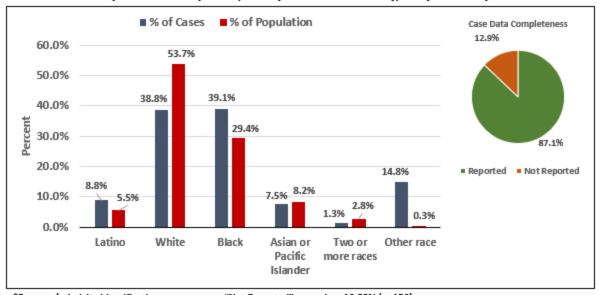
■ In Richmond, the case burden for Black individuals over the last 4 weeks (64.5%) is disproportionately high relative to their population percentage (47.5%), while the case burden for White individuals is disproportionately low, both in the last four weeks (23.4%) and cumulatively (30.7%) relative to their population percentage (40.4%). While the cumulative case burden for Latino individuals (15%) is disproportionately high compared to their population percentage (6.7%), the case burden over the last four weeks for Latino individuals (6.4%) has been lower than the

^{*}Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity

^{*}Cases among Native Americans are suppressed (counts < 5)

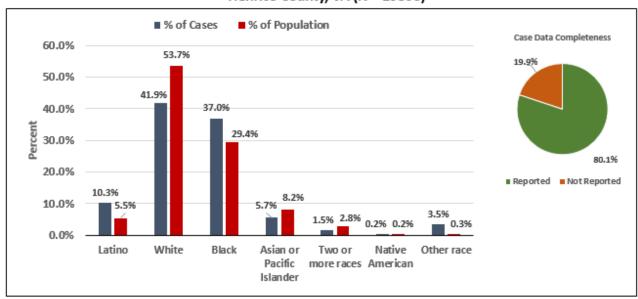
population percentage. Cumulatively, individuals identifying as belonging to 'Other race' groups comprise 2.6% of the case burden, notably however, this group comprises 13.1% of cases over the past four weeks.

COVID-19 case distribution by Race and Ethnicity in the last 4 weeks (March 29 - April 25, 2021) - Henrico County, VA (n = 1054)



^{*}For race/ethnicity identification among cases, "Not Reported" comprises 12.89% (n=156).

Cumulative COVID-19 case distribution by Race and Ethnicity as of April 25, 2021 - Henrico County, VA (N = 19850)



^{*}For race/ethnicity identification among cases, "Not Reported" comprises 19.89% (n=4927).

^{*}Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity

^{*}Cases among Native Americans are suppressed (counts < 5)

^{*}Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity

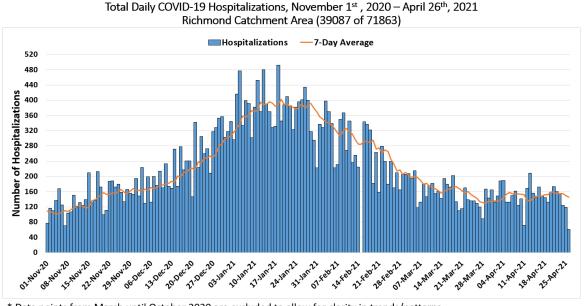
■ In Henrico, the case burden for Black individuals over the last 4 weeks (37.5%) and cumulatively (36.9%) is disproportionately high relative to their population percentage (29.4%). The case burden for White individuals has been disproportionately low over the last four weeks (41.6%) and cumulatively (41.9%) relative to their population percentage (53.7%). Both the cumulative case burden for Latino individuals (10.3%) and the case burden over the past four weeks (8.3%) have been disproportionately high as compared to their population percentage (5.5%). Over the past four weeks, individuals belonging to 'Other race' groups have comprised 20.1% of cases, a burden which is disproportionately high as compared to their cumulative case burden (3.5%), along with their population percentage (0.3%).

4.0 COVID-19 HOSPITALIZATIONS

4.1 SUMMARY OF HOSPITALIZATIONS

Based on VEDSS data, hospitalizations among Richmond and Henrico residents are decreasing (see <u>VDH</u> <u>Dashboard</u> for additional trend data). Looking more broadly, hospitalizations at health systems within the Richmond catchment area appear to be plateauing. ICU hospitalizations and the use of ventilators at these hospitals are fluctuating after recent increases, though all 11 hospitals in the Richmond catchment area are still operating at a normal clinical status. *Hospitalizations by subgroup (sex, age, and race) are reported on a monthly basis.*

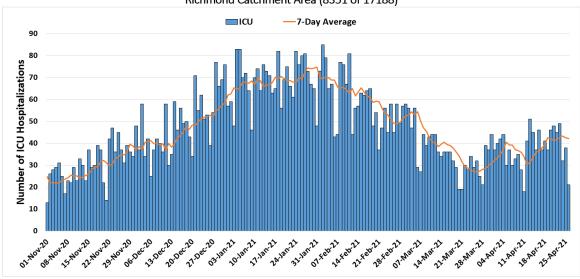
4.2 HOSPITALIZATIONS (CONFIRMED AND PENDING) BY DAY IN THE RICHMOND CATCHMENT AREA AS OF APRIL 26, 2021



- st Data points from March until October 2020 are excluded to allow for clarity in trends/patterns.
- Data from the 11 hospitals included in this analysis has shown a plateau in hospitalizations with some fluctuations in March and April April after a decrease over the month of February.
- Note: Data from February 15th, 2021 showed an erroneously high value and was subsequently omitted from the analysis. Steps are being taken to restore the quality of this data.
- Note: VA Medical Center has not updated hospitalization data in recent weeks.

4.3 ICU HOSPITALIZATIONS (CONFIRMED AND PENDING) BY DAY IN THE RICHMOND CATCHMENT AREA AS OF APRIL 26, 2021

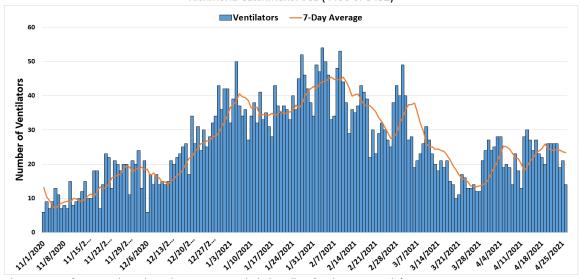
Total Daily COVID-19 ICU Hospitalizations, November $1^{\rm st}$, 2020 – April $26^{\rm th}$, 2021 Richmond Catchment Area (8351 of 17188)



- * Data points from March until October 2020 are excluded to allow for clarity in trends/patterns.
- Following a recent decrease from late February through the end of March, ICU hospitalizations have moderately increased from late March through April. This has occurred despite the lack of a commensurate increase in hospitalizations.
- Note: VA Medical Center has not updated ICU hospitalization data in recent weeks.

4.4 VENTILATOR UTILIZATIONS (PATIENTS ON VENTILATORS) BY DAY IN THE RICHMOND CATCHMENT AREA AS OF APRIL 26, 2021

Total Daily COVID-19 Ventilator Utilizations, November 1st , 2020 – April 26th , 2021 Richmond Catchment Area (4406 of 8432)



- * Data points from March until October 2020 are excluded to allow for clarity in trends/patterns.
- After ventilator utilization showed major fluctuations throughout the months of January and February before a noticeable decline in utilizations over the month of March, ventilator utilizations

- generally appeared to have increased to a new plateau with some fluctuations from late March through April.
- Note: VA Medical Center has not updated ventilator utilization data in recent weeks.

5.0 COVID-19 FATALITIES

5.1 SUMMARY OF FATALITIES

Current trends in COVID-19 deaths are decreasing overall, with a 7-day average of 1 in Henrico and less than 1 in Richmond according to the <u>VHD Dashboard</u>. Please note that trends in death data are frequently impacted by a lag in reporting. *Deaths by subgroup (sex, age, and race) are reported on a monthly basis.*

6.0 VACCINATION

6.1 VACCINE SUMMARY

Richmond and Henrico Health Districts are in Phase 2 of vaccination. Anyone 16 or older is now eligible to receive the vaccine. Vaccine supply and distribution are summarized in the tables below.

As of April 26, 2021, 42.3% of the region's population has received at least one dose of the vaccine. Around 30% of the region's population has been fully vaccinated. Approximately 41.5% of Richmond and Henrico's combined population has received at least one dose. 28.5% of the two districts combined population has been fully vaccinated.

The majority of vaccine recipients in both districts have been female. The highest counts of vaccine recipients have been among 30-39 year olds in Richmond and 60-69 year olds in Henrico. Available data indicate that eligible White individuals have received the majority of the vaccine in both districts, but a large percentage of the recipients' race/ethnicity is still unreported (39% in Richmond and 36% in Henrico).

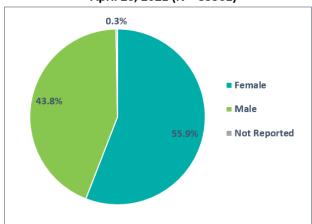
6.2 VACCINATIONS BY LOCALITY AS OF APRIL 26, 2021 - SOURCE: VDH. VIRGINIA. GOV

HEALTH DISTRICT	LOCALITY	POPULATION	FIRST DOSES ADMINISTERED	SECOND DOSES ADMINISTERED
Chesterfield	Chesterfield	352,802	148,183	109,960
	Colonial Heights	17,428	6,295	4,601
	Powhatan	28,815	11,388	8,646
Chickahominy	Charles City	6,963	3,011	2,328
	Goochland	23,753	12,532	9,205
	Hanover	107,766	50,572	34,947
	New Kent	23,091	9,442	6,948
Henrico	Henrico	330,818	148,634	100,838
Richmond	Richmond City	226,622	83,224	58,247
Total		1,118,058	473,281	335,720

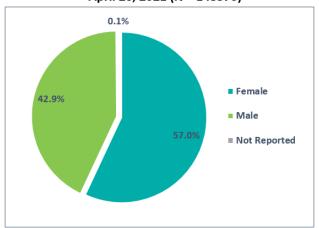
We have set a goal of vaccinating 75% of the population to reach herd immunity. First and second doses of the Pfizer vaccine must be administered at least 21 days apart. First and second doses of the Moderna vaccine must be administered at least 28 days apart. People who received the Johnson & Johnson vaccine, which is a single dose, are included in the count of first doses administered.

6.3 VACCINE DISTRIBUTION BY DEMOGRAPHIC SUBGROUP - SOURCE: VIIS

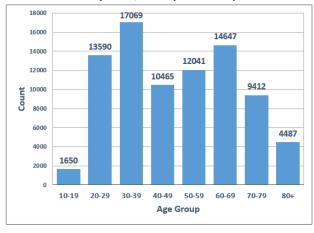
Total Vaccine Recipients by Sex in Richmond
-- April 26, 2021 (N = 83361)



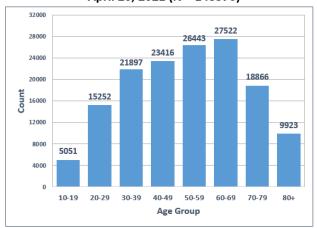
Total Vaccine Recipients by Sex in Henrico
-- April 26, 2021 (N = 148370)



Total Vaccine Recipients by Age Group in Richmond
– April 26, 2021 (N = 83361)

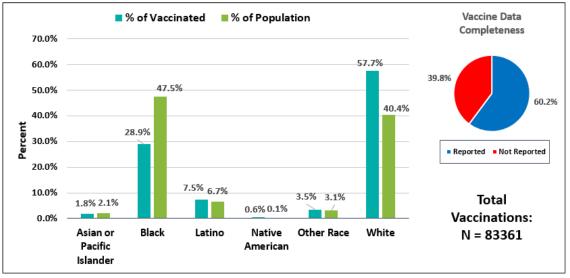


Total Vaccine Recipients by Age Group in Henrico
– April 26, 2021 (N = 148370)



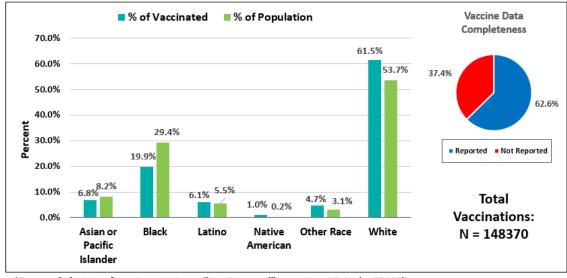
The following charts compare the percentage breakdown of racial or ethnic identification of vaccinated individuals to the expected percentage breakdown of the racial or ethnic identification of the population. A notable discrepancy can be seen when looking at Black individuals, who comprise 47.5% of the Richmond population and 29.4% of the Henrico population yet only 28.9% of vaccine recipients in Richmond and 19.9% of vaccine recipients in Henrico.

Vaccine Recipients vs. Population by Race/Ethnicity Percentages in Richmond – Dec 15, 2020 to Apr 26, 2021



^{*}For race/ethnicity of vaccine recipients, "Not Reported" comprises 39.8% (n=33186).

Vaccine Recipients vs. Population by Race/Ethnicity Percentages in Henrico – Dec 15, 2020 to Apr 26, 2021



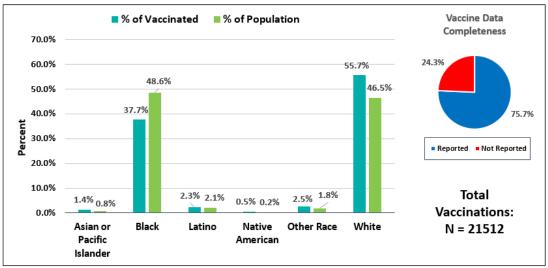
^{*}For race/ethnicity of vaccine recipients, "Not Reported" comprises 37.4% (n=55432).

^{*}Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity.

^{*}Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity.

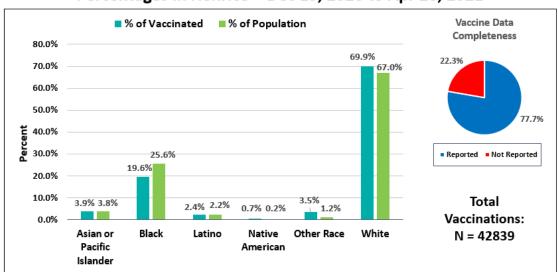
The figures below compare the percentage breakdown by race and ethnicity specifically for individuals 65 and over. In Richmond City, Black individuals comprise 48.6% of the population of those aged 65 years and older, yet make up only 37.7% of vaccine recipients. This discrepancy can also be noted in Henrico, where Black individuals make up 25.6% of the population, yet thus far have only comprised 19.6% of vaccine recipients.

Vaccine Recipients vs. Population 65 and Over by Race/Ethnicity Percentages in Richmond – Dec 15, 2020 to Apr 26, 2021



^{*}For race/ethnicity of vaccine recipients, "Not Reported" comprises 26.3% (n=5661).

Vaccine Recipients vs. Population 65 and Over by Race/Ethnicity Percentages in Henrico – Dec 15, 2020 to Apr 26, 2021



^{*}For race/ethnicity of vaccine recipients, "Not Reported" comprises 24.3% (n=10394).

^{*}Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity.

^{*}Missing and Unknown Ethnicities were assumed to be of Non-Hispanic ethnicity.

7.0 APPENDIX

7.1 census population estimates by age and race--richmond city and henrico county

Richmond City Population Estimates by Age and Race, as of July 1, 2018 (N=228,783)

Age group (Years)	LATINO	NH WHITE	NH BLACK	NH OTHER
0-9	3807	6375	13310	1232
10-19	2282	6587	13047	1554
20-29	3417	21968	18657	3146
30-39	2817	19613	14235	1897
40-49	1901	10191	10525	831
50-59	1129	10805	14747	690
60-69	525	10589	13292	574
70-79	218	5457	5866	271
80+	79	3599	3369	181

Henrico County Population Estimates by Age and Race, as of July 1, 2018 (N=329,261)

LATINO	NH WHITE	NH BLACK	NH OTHER
3764	17467	11946	6531
3464	18739	13872	5470
2870	19249	15019	5142
3360	22298	13542	7601
2608	22194	12532	5766
1696	25701	13509	3338
819	23639	10596	2368
391	14553	5349	1147
174	9618	2487	442
	3764 3464 2870 3360 2608 1696 819 391	3764 17467 3464 18739 2870 19249 3360 22298 2608 22194 1696 25701 819 23639 391 14553	3764 17467 11946 3464 18739 13872 2870 19249 15019 3360 22298 13542 2608 22194 12532 1696 25701 13509 819 23639 10596 391 14553 5349